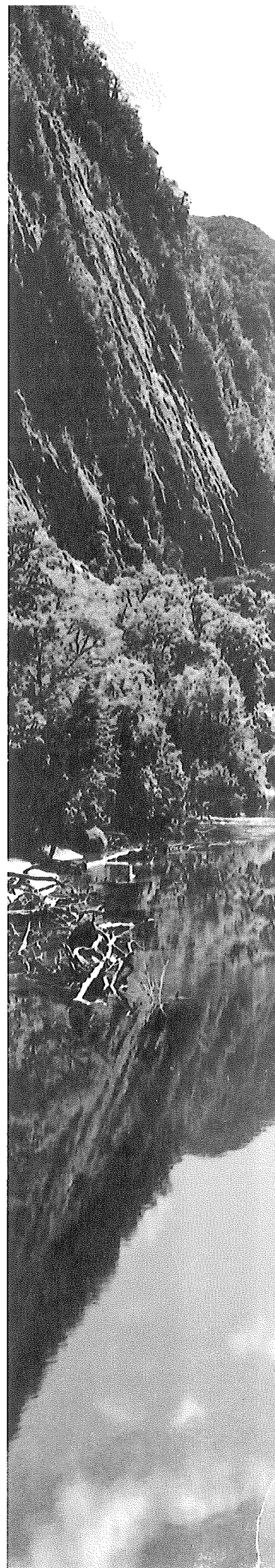


***PHASE TWO
SITE CHARACTERIZATION REPORT
HERBICIDE INVESTIGATION***

*BUREAU OF INDIAN AFFAIRS
ROAD SHOP FACILITY
DUCK VALLEY INDIAN RESERVATION
OWYHEE, ELKO COUNTY, NEVADA*

*February 24, 2000
SECOR Job # 093.99052.003*

SECOR



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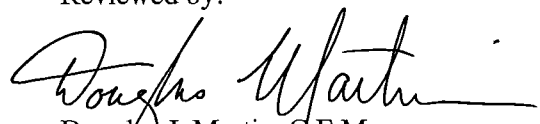

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PHASE TWO SITE CHARACTERIZATION REPORT OF FINDINGS

INTRODUCTION

SECOR International Incorporated (SECOR) has completed Phase II of the site characterization of the Bureau of Indian Affairs (BIA) Road Shop Yard (Yard) on the Duck Valley Indian Reservation in Owyhee, Elko County, Nevada. The Site Characterization activities at the Road Shop Yard were conducted in accordance with the SECOR July 1999 Site Characterization Work Plan for the Duck Valley site.

Previous investigations have been conducted to evaluate potential petroleum hydrocarbon contamination at the site related to various underground storage tanks and a fuel oil pipeline located in the northeastern portion of the site. In the course of performing these investigations, yellow substances were identified in soils within the open storage bays at the site (**Figure 1**). The yellow substances were identified as the herbicide Dinoseb and 2,4-dichlorophenoxyacetic Acid (2,4-D). Bay #3 was identified as an area of release of Dinoseb, and visible contamination to soil (yellow staining and powder) was evident throughout the bay. In September 1999, SECOR conducted biased and unbiased sampling throughout the Yard under Phase I of the July 1999 Work Plan. During the course of this investigation, a backhoe was used to remove yellow-stained soil to a depth of 18 to 22 inches throughout bay #3, resulting in removal of approximately 13 cubic yards of contaminated soil.

Composite sampling activities were conducted during the September 1999 investigation, which included establishment of a 60-foot centered gridwork across the Road Shop Yard and collection of soil samples at 60 points along that gridwork. The gridwork and sample locations were marked on the ground throughout the Yard (**Figure 1**). At each grid intersection sample location, four peripheral sample locations were marked 20 feet out from the intersection along north/south and east/west axes. Samples from each central sample location and the four peripheral locations were combined to form one composite sample. Soil samples were collected from 6 to 12 inches below grade at each location, using a stainless steel trowel decontaminated between each composite sample. The discrete samples that comprised the composite samples were held under refrigeration pending results from the composite sample analyses.

Of the total 60 locations that were sampled, 13 (five open Yard locations and eight bay locations) had detectable concentrations of Dinoseb, 2,4-D, and/or 2,4,5-T (**Figure 1**). Detection of the contaminants at these locations led to the submission and analysis of 18 discrete samples collected and held during the September 1999 investigation. Two of the 18 discrete Yard samples analyzed contained concentrations of 2,4-D; the remainder did not contain concentrations of target contaminants above the detection limit (**Figure 2**). Having characterized the lateral extent of contamination, SECOR returned to the Road Shop Yard in November 1999 to investigate the vertical extent of contamination at the two discrete Yard locations and at four locations inside bays #2, 3, 4, and 6 (a total of nine discrete locations).

OBJECTIVE

The objective of the discrete and composite soil sampling work conducted in September 1999 was to characterize the lateral extent of near-surface contamination throughout the Road Shop Yard. Results from the sampling investigation indicated areas in the Yard, which were impacted by target contaminants.

The objective of the work conducted in November 1999 was to characterize the vertical extent of contamination at the areas where near-surface contamination was found during the September 1999 investigation (**Figure 3**).

SAMPLING METHODOLOGY

SECOR met with BIA personnel on November 2, 1999 at the Road Shop Yard to identify the nine sample locations. A backhoe was used to excavate down to a depth of 2 to 2.5 feet below ground surface (bgs) at each location. The depth of excavation in bay #3 was to 4.5 feet bgs because previous excavation in that bay had been conducted to approximately two feet bgs. The bucket of the backhoe was decontaminated between each location with a scrubwash of Alconox and distilled water. Excavations were backfilled with the original soil after sampling was completed.

A sample was collected at each location from the inner portion of the bucket contents, near the bottom of each excavation. Clean, disposable latex gloves were used at each location to collect the soil sample. Samples were placed in eight-ounce glass jars with teflon-lined lids, labeled, placed in cold storage, and transported under chain-of-custody to Associated Laboratories in Orange, California for analysis of Dinoseb, 2,4-D, and 2,4,5-T.

RESULTS

Composite soil sample analytical results from the September 1999 investigation indicated five areas of the Yard and seven bays were impacted by target contaminants (**Figure 1** and **Table 1A**). After review of the analytical data, SECOR recommended, and the BIA authorized, submission of discrete samples from four (4) Yard locations to further delineate lateral impact. These samples were submitted and analysis results provided in October 1999 (**Figure 2** and **Table 1B**). Due to the presence of equipment and materials surrounding location ARYF0, discrete samples could not be collected at peripheral locations around ARYF0 during the sampling in September, so discrete samples from adjacent ARYF1 sample location were submitted for analysis.

Results from the discrete samples submitted in October 1999 indicated that peripheral contamination was present at sample location ARYF4. Five (5) Yard locations (ARYF4-C and D, ARYC2, ARYC5, and ARYF0) and four bays (#2, #3, #4, and #6) were selected for vertical sampling in November 1999 for the purpose of delineating vertical extent of impact. Bays #5 and #8 contained low concentrations of 2,4-D, which were below the quantification limit of 0.2 mg/kg, and Bay #11 contained a concrete floor, so these locations were not selected for excavation.

Soil sample analytical results from the November 1999 investigation indicated that only one of the nine sample locations (ARYF4-C at 2.5 feet below ground surface) had contamination below two feet deep (**Figure 3** and **Table 1C**). Soil at ARYF4-C at 2.5 feet bgs contained 0.453 mg/kg 2,4-D. The previous soil analysis result for a sample collected in September 1999 near the ground surface at ARYF4-C was 2.7 mg/kg 2,4-D, suggesting that concentrations decrease with depth.

None of the September soil samples collected for analysis of total phenolic compounds contained concentrations greater than the 0.1 mg/kg quantification limit (**Table 2**); thus additional phenolic analysis was not conducted. Laboratory analysis reports for October and November 1999 are provided in Appendix A. Complete soil analysis results are presented in **Tables 1A, 1B, 1C, and Table 2**.

CONCLUSIONS AND RECOMMENDATIONS

The Road Shop Yard investigation has succeeded in characterizing the contaminant distribution in the Yard by narrowing the focus of investigation through a systematic sampling plan. The vertical extent of contamination has been characterized at nine locations where concentrations of contaminants were detected. Only one of those locations has been impacted below two feet bgs, and concentrations of 2,4-D appear to decrease with depth, although the full vertical extent of impact is still unknown. The following table outlines the areas in the Road Shop Yard where remaining soil contained concentrations of either Dinoseb, 2,4-D, or 2,4,5-T are greater than the quantification limit:

LOCATION	DATE OF SAMPLING	CONCENTRATION (mg/kg of soil)	CONTAMINANT	DEPTH
Bay #2	9/20/99	0.57	2,4-D	<2 feet bgs*
Bay #3	9/18/99	0.067	Dinoseb	<2 feet bgs
		0.063	2,4,5-T	<2 feet bgs
		16.	2,4,-D	<2 feet bgs
Bay #4	9/20/99	2.2	2,4-D	<2 feet bgs
Bay #6	9/18/99	0.052	2,4,5-T	<2 feet bgs
		1.1	2,4,-D	<2 feet bgs
Just outside Bay #11	9/18/99	0.042	2,4,5-T	<2 feet bgs
		0.23	2,4-D	<2 feet bgs
ARYF4-D	9/16/99	0.3	2,4-D	<2 feet bgs
ARYF4-C	9/16/99	2.7	2,4,-D	<2 feet bgs
	11/02/99	0.453	2,4-D	>2 feet bgs

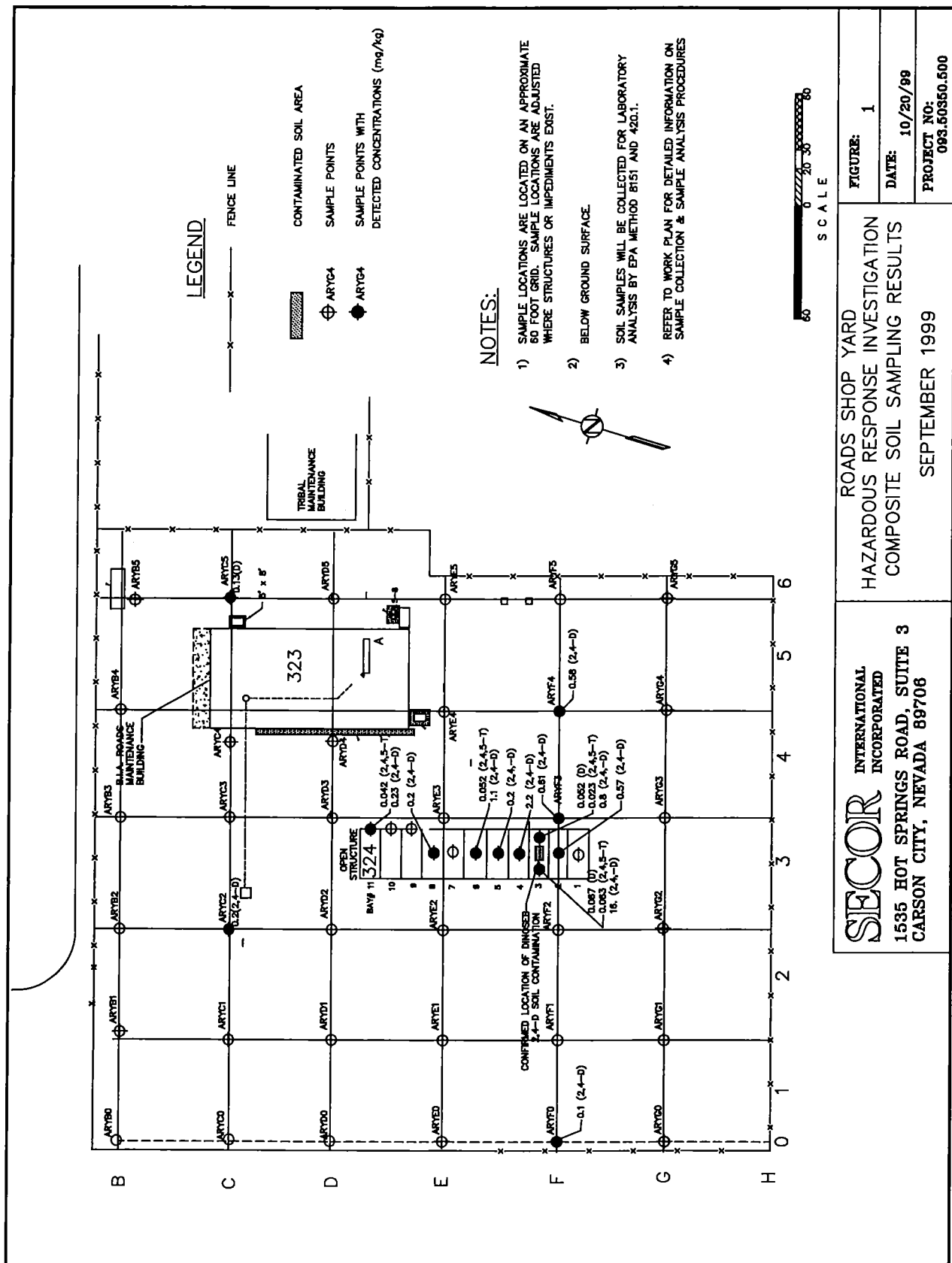
bgs: below ground surface

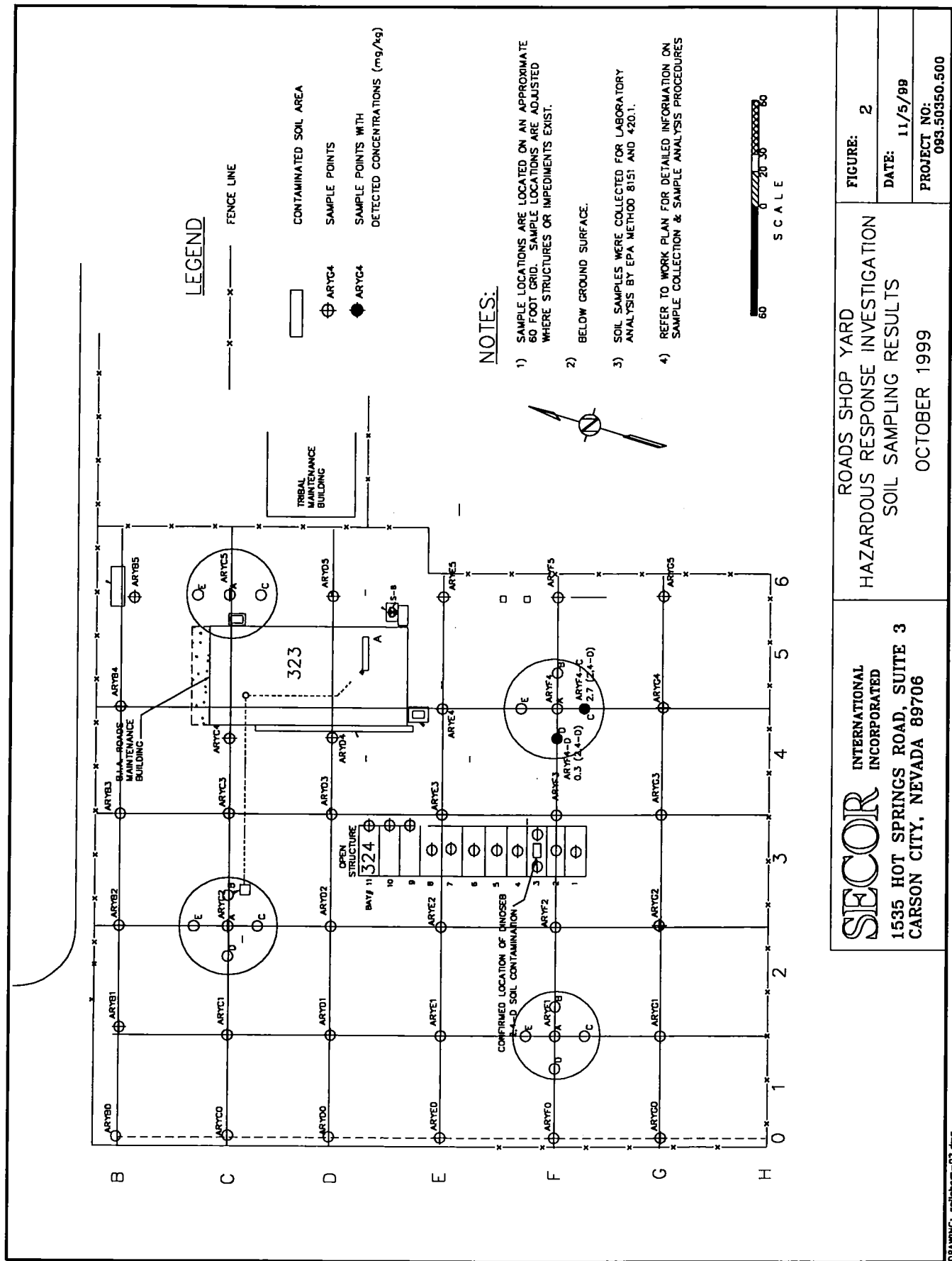
SECOR recommends that a single excavation be conducted at sample location ARYF4-C to a depth of ten feet bgs, and that soil samples be collected at five, eight, and ten feet bgs as the excavation proceeds. The five-foot soil sample would then be submitted for analysis of the three contaminants of concern. If the result indicates that no contaminants were detected, then no further sample analysis would be required. If the result indicates that contamination still exists at a level above the detection limit for reporting, then the eight- and ten-foot samples would be submitted for analysis. The nature of further action (e.g., over-excavation) would depend on the vertical extent and magnitude of contamination.

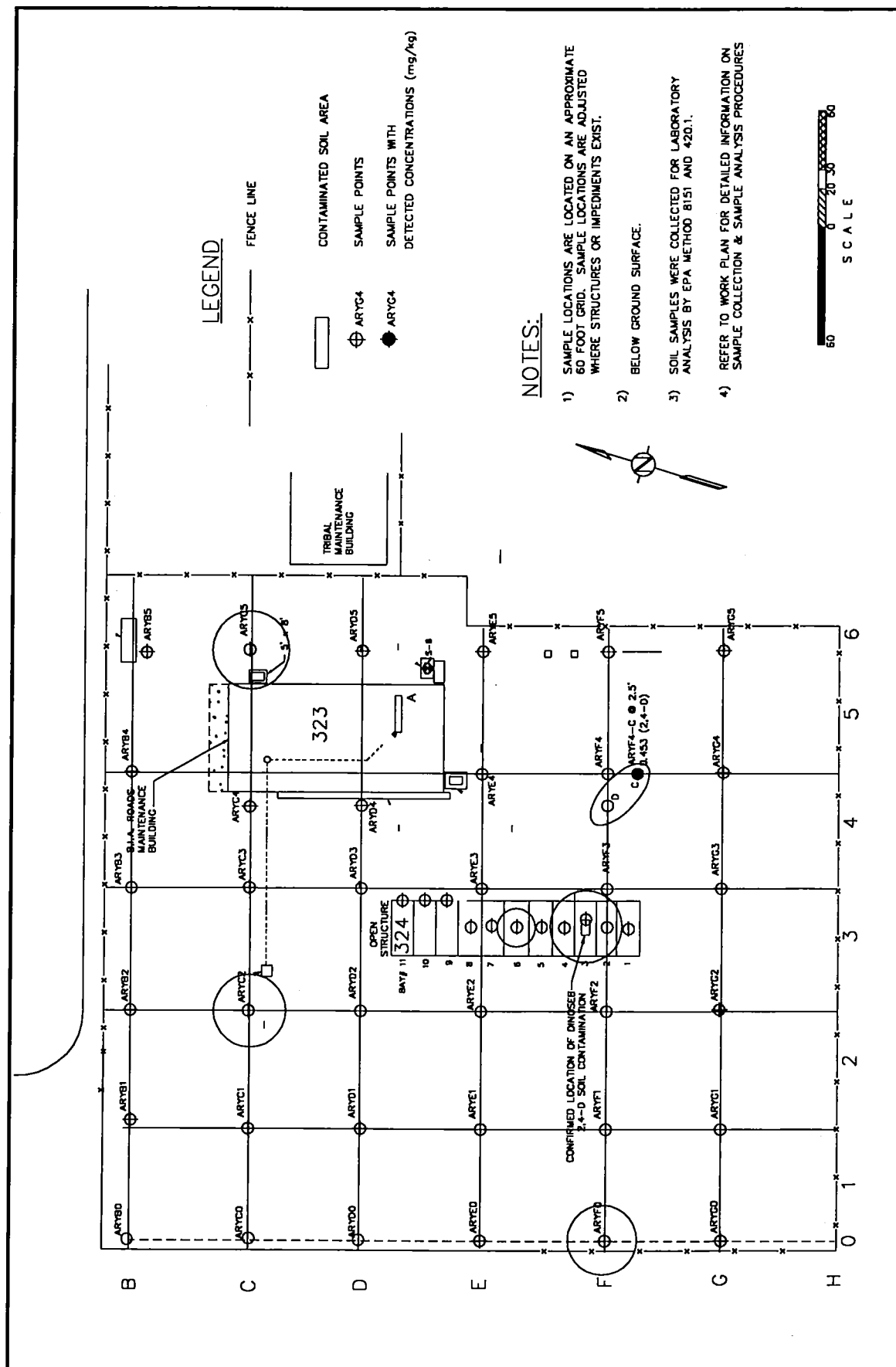
Since the concentrations of contaminants in the remaining soil at the Yard are well below the EPA Preliminary Remediation Goals* for residential soil (2,4-D 690 mg/kg, Dinoseb 61 mg/kg, 2,4,5-T 610 mg/kg), SECOR recommends that no further action be taken with regard to the remaining soils (unless significant contamination is found deeper at ARYF4-C). SECOR further recommends that notification be given to any personnel who could potentially be working in the Yard in the future to immediately report any observance of discolored, odorous, or corrosive soils.

* PRELIMINARY REMEDIATION GOALS, UNITED STATES ENVIRONMENTAL PROTECTION AGENCY, REGION IX, OCTOBER 1, 1999

FIGURES







SECOR INTERNATIONAL INCORPORATED 1535 HOT SPRINGS ROAD, SUITE 3 CARSON CITY, NEVADA 89706	ROADS SHOP YARD HAZARDOUS RESPONSE INVESTIGATION SOIL SAMPLING RESULTS NOVEMBER 1999		FIGURE: 3
			DATE: 11/5/99
			PROJECT NO: 093.50350.500

TABLES

TABLE 1A
COMPOSITE SOIL SAMPLE ANALYTICAL RESULTS
FOR DINOSEB, 2,4-D, AND 2,4,5-T

BIA Road Shop Yard
Duck Valley Reservation, Owyhee, Nevada

September 1999

Sampling Area	Sample Location	Date	Depth bgs (ft)	Dinoseb (mg/kg)	2,4-D (mg/kg)	2,4,5-T (mg/kg)
Stockpiles	R-1	6/16/99	comp.	<0.170	<0.033	NA
	R-2	6/16/99	comp.	<700	520	NA
	R-3	6/16/99	comp.	<0.170	0.043	NA
	R-4	6/16/99	comp.	<500	2,900	NA
Open Yard Grid	ARYB0	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYB1	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYB2	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYB3	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYB4	9/15/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYB5	9/15/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYC0	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYC1	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYC2	9/16/99	0.3 - 0.9	<0.1	0.2	<0.04
	ARYC3	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYC4	9/15/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYC5	9/15/99	0.3 - 0.9	0.13	<0.2	<0.04
	ARYD0	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYD1	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYD2	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYD3	NS	NS	NS	NS	NS
	ARYD4	9/18/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYD5	9/15/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYE0	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYE1	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYE2	9/16/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYE3	9/18/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYE4	9/18/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYE5	9/15/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYF0	9/17/99	0.3 - 0.9	<0.1	0.1*	<0.04
	ARYF1	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYF2	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYF3	9/17/99	0.3 - 0.9	<0.1	0.61	<0.04
	ARYF4	9/18/99	0.3 - 0.9	<0.1	0.58	<0.04
	ARYF5	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYG0	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYG1	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYG2	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYG3	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYG4	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYG5	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYH0	NS	NS	NS	NS	NS
	ARYH1	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYH2	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYH3	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYH4	9/17/99	0.3 - 0.9	<0.1	<0.2	<0.04
	ARYH5	NS	NS	NS	NS	NS
Southwest corner of Yard	SW1	9/18/99	0.3 - 0.9	<0.1	<0.2	<0.04
	SW2	9/18/99	0.3 - 0.9	<0.1	<0.2	<0.04
	SW3	9/18/99	0.3 - 0.9	<0.1	<0.2	<0.04
	SW4	9/18/99	0.3 - 0.9	<0.1	<0.2	<0.04
North end of Maint. (Bldg # 324)	WF1	9/18/99	0.5	<0.1	<0.2	<0.04
	WF2	9/18/99	0.5	<0.1	<0.2	<0.04
Open Storage Bays (Bldg # 324)	BAY1	9/20/99	0.5	<0.1	<0.2	<0.04
	BAY2	9/20/99	0.5	<0.1	0.57	<0.04
	BAY3-01	9/18/99	1.5	0.067*	16	0.063
	BAY3-02	9/18/99	1.5	0.052*	0.8	0.023*
	BAY4	9/20/99	0.5	<0.1	2.2	<0.04
	BAY5	9/20/99	0.5	<0.1	0.2	<0.04
	BAY6	9/18/99	0.5	<0.1	1.1	0.052
	BAY7	9/18/99	0.5	<0.1	<0.2	<0.04
	BAY8	9/18/99	0.5	<0.1	0.2	<0.04
	BAY9	NS	NS	NS	NS	NS
	BAY10	NS	NS	NS	NS	NS
	BAY11	9/18/99	0.3	<0.1	0.23	0.042

Notes:

- 1) Composite soil samples are composed of 5 equal-volume discrete soil samples. Thus, a detected concentration in a composite sample could represent one, two, three, four, or all five discrete samples. As such, the composite samples are a qualitative means of identifying areas of impact.
- 2) NS: Not sampled because of obstructions or redundant sampling.
- 3) NA: Not analyzed for this constituent.
- 4) Analysis method: EPA 8151
- 5) Bold values indicate detected concentrations either greater than or less than quantitation limit.
- 6) * Estimated value. Actual value is below quantitation limit.

TABLE 1B
DISCRETE SOIL SAMPLE ANALYTICAL RESULTS
FOR DINOSEB, 2,4-D, AND 2,4,5-T
BIA Road Shop Yard
Duck Valley Reservation, Owyhee, Nevada
September 1999 (Submitted October 1999)

Sampling Area	Sample Location	Date	Depth bgs (ft)	Dinoseb (mg/kg)	2,4-D (mg/kg)	2,4,5-T (mg/kg)
Open Yard Grid	ARYC2-A	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYC2-B	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYC2-C	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYC2-D	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYC2-E	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYC5-A	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYC5-C	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYC5-E	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYF1-A	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYF1-B	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYF1-C	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYF1-D	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYF1-E	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYF4-A	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYF4-B	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05
	ARYF4-C	9/16/99	0.3 - 0.9	<0.05	2.7	<0.05
	ARYF4-D	9/16/99	0.3 - 0.9	<0.05	0.3	<0.05
	ARYF4-E	9/16/99	0.3 - 0.9	<0.05	<0.2	<0.05

Notes:

- 1) Analysis method: EPA 8151A
- 2) Bold values indicate detected concentrations either greater than or less than quantitation limit.

TABLE 1C
EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS
FOR DINOSEB, 2,4-D, AND 2,4,5-T
BIA Road Shop Yard
Duck Valley Reservation, Owyhee, Nevada
November 1999

Sampling Area	Sample Location	Date	Depth bgs (ft)	Dinoseb (mg/kg)	2,4-D (mg/kg)	2,4,5-T (mg/kg)
Open Yard Grid	ARYC2	11/2/99	2.5	<0.05	<0.2	<0.05
	ARYC5	11/2/99	2.5	<0.05	<0.2	<0.05
	ARYF4-C	11/2/99	2.5	<0.05	0.453	<0.05
	ARYF4-D	11/2/99	2.5	<0.05	<0.2	<0.05
	ARYF0	11/2/99	2.5	<0.05	<0.2	<0.05
Bays	BAY#2	11/2/99	2	<0.05	<0.2	<0.05
	BAY#3	11/2/99	4.5	<0.05	<0.2	<0.05
	BAY#4	11/2/99	2	<0.05	<0.2	<0.05
	BAY#6	11/2/99	2	<0.05	<0.2	<0.05

Notes:

- 1) Analysis method: EPA 8151A
- 2) Bold values indicate detected concentrations either greater than or less than quantitation limit.

TABLE 2
COMPOSITE SOIL SAMPLE ANALYTICAL RESULTS
FOR TOTAL PHENOLS
BIA Road Shop Yard
Duck Valley Reservation, Owyhee, Nevada

SEPTEMBER 1999

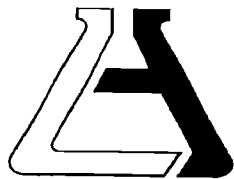
Sampling Area	Sample Location	Date	Depth bgs (ft)	Total Phenols (mg/kg)
Open Yard Grid	ARYB0	9/16/99	0.3 - 0.9	<0.1
	ARYB1	9/16/99	0.3 - 0.9	<0.1
	ARYB2	9/16/99	0.3 - 0.9	<0.1
	ARYB3	9/16/99	0.3 - 0.9	<0.1
	ARYB4	9/15/99	0.3 - 0.9	<0.1
	ARYB5	9/15/99	0.3 - 0.9	<0.1
	ARYC0	9/16/99	0.3 - 0.9	<0.1
	ARYC1	9/16/99	0.3 - 0.9	<0.1
	ARYC2	9/16/99	0.3 - 0.9	<0.1
	ARYC3	9/16/99	0.3 - 0.9	<0.1
	ARYC4	9/15/99	0.3 - 0.9	<0.1
	ARYC5	9/15/99	0.3 - 0.9	<0.1
	ARYD0	9/16/99	0.3 - 0.9	<0.1
	ARYD1	9/16/99	0.3 - 0.9	<0.1
	ARYD2	9/16/99	0.3 - 0.9	<0.1
	ARYD3	NS	NS	NS
	ARYD4	9/18/99	0.3 - 0.9	<0.1
	ARYD5	9/15/99	0.3 - 0.9	<0.1
	ARYE0	9/17/99	0.3 - 0.9	<0.1
	ARYE1	9/17/99	0.3 - 0.9	<0.1
	ARYE2	9/18/99	0.3 - 0.9	<0.1
	ARYE3	9/18/99	0.3 - 0.9	<0.1
	ARYE4	9/18/99	0.3 - 0.9	<0.1
	ARYE5	9/15/99	0.3 - 0.9	<0.1
	ARYF0	9/17/99	0.3 - 0.9	<0.1
	ARYF1	9/17/99	0.3 - 0.9	<0.1
	ARYF2	9/17/99	0.3 - 0.9	<0.1
	ARYF3	9/17/99	0.3 - 0.9	<0.1
	ARYF4	9/18/99	0.3 - 0.9	<0.1
	ARYF5	9/17/99	0.3 - 0.9	<0.1
	ARYG0	9/17/99	0.3 - 0.9	<0.1
	ARYG1	9/17/99	0.3 - 0.9	<0.1
	ARYG2	9/17/99	0.3 - 0.9	<0.1
	ARYG3	9/17/99	0.3 - 0.9	<0.1
	ARYG4	9/17/99	0.3 - 0.9	<0.1
	ARYG5	9/17/99	0.3 - 0.9	<0.1
	ARYH0	NS	NS	NS
	ARYH1	9/17/99	0.3 - 0.9	<0.1
	ARYH2	9/17/99	0.3 - 0.9	<0.1
	ARYH3	9/17/99	0.3 - 0.9	<0.1
	ARYH4	9/17/99	0.3 - 0.9	<0.1
	ARYH5	NS	NS	NS
Southwest corner of Yard	SW1	9/18/99	0.3 - 0.9	<0.1
	SW2	9/18/99	0.3 - 0.9	<0.1
	SW3	9/18/99	0.3 - 0.9	<0.1
	SW4	9/18/99	0.3 - 0.9	<0.1
North end of Maint. (Bldg # 324)	WF1	9/18/99	0.5	<0.1
	WF2	9/18/99	0.5	<0.1
Open Storage Bays (Bldg # 324)	BAY1	9/20/99	0.5	<0.1
	BAY2	9/20/99	0.5	<0.1
	BAY3-01	9/18/99	1.5	<0.1
	BAY3-02	9/18/99	1.5	<0.1
	BAY4	9/20/99	0.5	<0.1
	BAY5	9/20/99	0.5	<0.1
	BAY6	9/18/99	0.5	<0.1
	BAY7	9/18/99	0.5	<0.1
	BAY8	9/18/99	0.5	<0.1
	BAY9	NS	NS	NS
	BAY10	NS	NS	NS
	BAY11	9/18/99	0.3	<0.1

Notes:

- 1) Composite soil samples are composed of 5 equal-volume discrete soil samples. Thus, a detected concentration in a composite sample could represent one, two, three, four, or all five discrete samples. As such, the composite samples are a qualitative means of identifying areas of impact.
- 2) NS: Not sampled because of obstructions or redundant sampling.
- 3) NA: Not analyzed for this constituent.
- 4) Analysis method: EPA 420.1

APPENDIX A

APPENDIX A
LABORATORY ANALYTICAL REPORTS

**ASSOCIATED LABORATORIES**

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT SECOR International Incorporated (8561)
ATTN: Doug Martin
1535 Hot Springs Rd., Suite #3
Carson City, NV 89706

LAB REQUEST 44699

REPORTED 11/15/99

RECEIVED 11/ 5/99

PROJECT #093.99052.500/Duck Valley

SUBMITTER Client

COMMENTS

attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

151309
151310
151311
151312
151313
151314
151315
151316
151317

Client Sample Identification

ARYC2@2.5'
ARYC5@2.5'
ARYF4-C@2.5'
ARYF4-D@2.5'
ARYF0@2.5'
BAY2 @ 2.0'
BAY3 @ 4.5'
BAY4 @ 2.0'
BAY6 @ 2.0'

Regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 151309

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYC2@2.5'

Date Sampled: 11/2/99

Time Sampled: 15:30

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

2,4,5-T

2,4,5-T	ND	1	0.05	mg/Kg	11/11/99	DY
2,4-D	ND	1	0.2	mg/Kg	11/11/99	DY
Dinoseb	ND	1	0.05	mg/Kg	11/11/99	DY

R = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 151310

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYC5@2.5'

Date Sampled: 11/2/99

Time Sampled: 15:30

Sampled By:

Analyte**Result****DF****DLR****Units Date/Analyst****151A Phenoxy Acid Herbicides**

2,4,5-T	ND	1	0.05	mg/Kg	11/11/99	DY
2,4-D	ND	1	0.2	mg/Kg	11/11/99	DY
Dinoseb	ND	1	0.05	mg/Kg	11/11/99	DY

= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES** Analytical Results Report

Order #: 151311

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF4-C@2.5'

Date Sampled: 11/2/99

Time Sampled: 16:20

Sampled By:

Analyte**Result****DF****DLR****Units Date/Analyst****151A Phenoxy Acid Herbicides**

2,4,5-T	ND	1	0.05	mg/Kg	11/11/99	DY
2,4-D	0.453	1	0.2	mg/Kg	11/11/99	DY
Dinoseb	ND	1	0.05	mg/Kg	11/11/99	DY

DL = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 151312

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF4-D@2.5'

Date Sampled: 11/2/99

Time Sampled: 16:05

Sampled By:

Analyte**Result****DF****DLR****Units Date/Analyst****151A Phenoxy Acid Herbicides**

2,4,5-T	ND	1	0.05	mg/Kg	11/11/99	DY
2,4-D	ND	1	0.2	mg/Kg	11/11/99	DY
Dinoseb	ND	1	0.05	mg/Kg	11/11/99	DY

DL = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 151313

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF0@2.5'

Date Sampled: 11/2/99

Time Sampled: 15:10

Sampled By:

Analyte**Result****DF****DLR****Units Date/Analyst****1A Phenoxy Acid Herbicides**

2,4,5-T	ND	1	0.05	mg/Kg	11/11/99	DY
2,4-D	ND	1	0.2	mg/Kg	11/11/99	DY
Dinoseb	ND	1	0.05	mg/Kg	11/11/99	DY

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 151314

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: BAY2 @ 2.0'

Date Sampled: 11/2/99

Time Sampled: 16:12

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>151A Phenoxy Acid Herbicides</u>					
2,4,5-T	ND	1	0.05	mg/Kg	11/11/99 DY
2,4-D	ND	1	0.2	mg/Kg	11/11/99 DY
Dinoseb	ND	1	0.05	mg/Kg	11/11/99 DY

R = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 151315

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: BAY3 @ 4.5'

Date Sampled: 11/2/99

Time Sampled: 15:20

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	11/11/99 DY
2,4-D	ND	1	0.2	mg/Kg	11/11/99 DY
Dinoseb	ND	1	0.05	mg/Kg	11/11/99 DY

DL = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 151316

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: BAY4 @ 2.0'

Date Sampled: 11/2/99

Time Sampled: 16:38

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

151A Phenoxy Acid Herbicides

2,4,5-T	ND	1	0.05	mg/Kg	11/11/99	DY
2,4-D	ND	1	0.2	mg/Kg	11/11/99	DY
Dinoseb	ND	1	0.05	mg/Kg	11/11/99	DY

DL = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 151317

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: BAY6 @ 2.0'

Date Sampled: 11/2/99

Time Sampled: 16:45

Sampled By:

Analyte**Result****DF****DLR****Units Date/Analyst****151A Phenoxy Acid Herbicides**

2,4,5-T	ND	1	0.05	mg/Kg	11/11/99	DY
2,4-D	ND	1	0.2	mg/Kg	11/11/99	DY
Dinoseb	ND	1	0.05	mg/Kg	11/11/99	DY


= Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Chain-of Custody Number:

SECOR Chain-of-Custody Record

Field Office: 093

 Additional documents are attached, and are a part of this Record.

Address:

Address: 1535 Mid Springs Rd #3

90768 AN 4712 was 47

Location: Owyhee, VT

775.884-4561

Project #	Task #
093.99052.500	

Project Manager D. Match

Laboratory Associated

Turnaround Time:

Sampler's Name Dricin Bass

Sampler's Signature:

Sample ID	Date	Time	Matrix
ARYC2 @ 2.5'	11-02-99	15:50	Soil
ARYC5 @ 2.5'	"	15:30	Soil
ARYF4-C @ 2.5'	"	16:20	"
ARYF4-D @ 2.5'	"	16:05	"
ARYF4 @ 2.5'	"	15:10	"
BAY2 @ 2.0'	"	16:42	"
BAY3 @ 4.5'	"	15:20	"
BAY4 @ 2.0'	"	16:38	"
BAY6 @ 2.0'	"	16:45	"

[illegible]

Special Instructions/Comments:

Call upon receipt to

Confirm.

2

ext. 226

Relinquished to:

Sign B. Bass
Print B. Bass

Company SECOR Date 11-04-99
Time 16:00

Relinquished by:

Sian

Print

Appendix

Company _____ Date _____

Received by:

Sign AIRBELL#
Print 512/8141

Company **FED EX** Time **16:00** Date **11/04/99**

Received by:

Signs

Original Print

Company: _____
 Title: _____

Company

Sample Receipt

Sample Receipt

Total no. of containers:

Chain of custody seals:

Confirms to record:

1

Client:

100

Client Contact:

1

Order #: 147187

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF4-C

Date Sampled: 9/18/99

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

151A Phenoxy Acid Herbicides

2,4,5-T	ND	5	0.65	mg/Kg	10/27/99	LS
2,4-D	2.7	5	4.0	mg/Kg	10/27/99	LS
Dinoseb	ND	5	0.25	mg/Kg	10/27/99	LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



PHASE II RESULTS
DISCRETE LOCATIONS AFTER INITIAL COMPOSITES


ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900
FAX 714/538-1209

CLIENT SECOR International Incorporated (8561)
 ATTN: Doug Martin
 1535 Hot Springs Rd., Suite #3
 Carson City, NV 89706

LAB REQUEST 43688
REPORTED 10/28/99
RECEIVED 10/14/99
PROJECT Duck Valley, 093.50350.003
SUBMITTER Client
COMMENTS Owyhee, NV

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
147172	ARYC2-A
147173	ARYC2-B
147174	ARYC2-C
147175	ARYC2-D
147176	ARYC2-E
147177	ARYC5-A
147178	ARYC5-C
147179	ARYC5-E
147180	ARYF1-A
147181	ARYF1-B
147182	ARYF1-C
147183	ARYF1-D
147184	ARYF1-E

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
 Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
 Chemical
 Microbiological
 Environmental

CLIENT SECOR International Incorporated (8561)
ATTN: Doug Martin
1535 Hot Springs Rd., Suite #3
Carson City, NV 89706

LAB REQUEST 43688

REPORTED 10/28/99
RECEIVED 10/14/99

PROJECT Duck Valley, 093.50350.003

SUBMITTER Client

COMMENTS Owyhee, NV

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

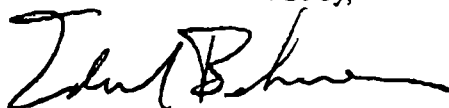
147185
147186
147187
147188
147189
147190

Client Sample Identification

ARYF4-A
ARYF4-B
ARYF4-C ✓
ARYF4-D ✓
ARYF4-E
Trip Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,



Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 147172

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYC2-A

Date Sampled: 9/16/99

Time Sampled: 11:55

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
3151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/22/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/22/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/22/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147173

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYC2-B

Date Sampled: 9/16/99

Time Sampled: 12:10

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
3151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/22/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/22/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/22/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147174

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYC2-C

Date Sampled: 9/16/99

Time Sampled: 12:20

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/22/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/22/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/22/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147175

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYC2-D

Date Sampled: 9/16/99

Time Sampled: 12:35

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/23/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/23/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/23/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147176

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYC2-E

Date Sampled: 9/16/99

Time Sampled: 12:45

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/23/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/23/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/23/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147177

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYCS-A

Date Sampled: 9/15/99

Time Sampled: 17:50

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/23/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/23/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/23/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147178

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYC5-C

Date Sampled: 9/15/99

Time Sampled: 17:56

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/23/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/23/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/23/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147179

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYC5-E

Date Sampled: 9/15/99

Time Sampled: 16:54

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>151A Phenoxy Acid Herbicides</u>					
2,4,5-T	ND	1	0.05	mg/Kg	10/23/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/23/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/23/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147180

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYP1-A

Date Sampled: 9/17/99

Time Sampled: 10:15

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/27/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/27/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/27/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147181

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF1-B

Date Sampled: 9/17/99

Time Sampled: 10:19

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

151A Phenoxy Acid Herbicides

2,4,5-T	ND	1	0.05	mg/Kg	10/27/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/27/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/27/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147182

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF1-C

Date Sampled: 9/17/99

Time Sampled: 10:23

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/27/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/27/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/27/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147183

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF1-D

Date Sampled: 9/17/99

Time Sampled: 10:12

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

51A Phenoxy Acid Herbicides

2,4,5-T	ND	1	0.05	mg/Kg	10/27/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/27/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/27/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147184

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF1-E

Date Sampled: 9/17/99

Time Sampled: 10:16

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

51A Phenoxy Acid Herbicides

2,4,5-T	ND	1	0.05	mg/Kg	10/27/99	LS
2,4-D	ND	1	0.2	mg/Kg	10/27/99	LS
Dinoseb	ND	1	0.05	mg/Kg	10/27/99	LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147185

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF4-A

Date Sampled: 9/18/99

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>51A Phenoxy Acid Herbicides</u>					
2,4,5-T	ND	1	0.05	mg/Kg	10/27/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/27/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/27/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147186

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF4-B

Date Sampled: 9/18/99

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/27/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/27/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/27/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147187

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF4-C

Date Sampled: 9/18/99

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

151A Phenoxy Acid Herbicides

2,4,5-T	ND	5	0.65	mg/Kg	10/27/99	LS
2,4-D	2.7	5	4.0	mg/Kg	10/27/99	LS
Dinoseb	ND	5	0.25	mg/Kg	10/27/99	LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147188

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYP4-D

Date Sampled: 9/18/99

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

51A Phenoxy Acid Herbicides

2,4,5-T	ND	1	0.05	mg/Kg	10/27/99 LS
2,4-D	0.3	1	0.2	mg/Kg	10/27/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/27/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147189

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: ARYF4-E

Date Sampled: 9/18/99

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
151A Phenoxy Acid Herbicides					
2,4,5-T	ND	1	0.05	mg/Kg	10/28/99 LS
2,4-D	ND	1	0.2	mg/Kg	10/28/99 LS
Dinoseb	ND	1	0.05	mg/Kg	10/28/99 LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 147190

Client: SECOR International Incorporated

Matrix: SOLID

Client Sample ID: Trip Blank

Date Sampled: 9/10/99

Time Sampled:

Sampled By:

Analyte**Result****DF****DLR****Units Date/Analyst****51A Phenoxy Acid Herbicides**

2,4,5-T	ND	1	0.05	mg/Kg	10/28/99	LS
2,4-D	ND	1	0.2	mg/Kg	10/28/99	LS
Dinoseb	ND	1	0.05	mg/Kg	10/28/99	LS

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES

QA REPORT FORM - ORGANICS

Method : EPA 8151

QC Sample: LR 43688-147179

Matrix: SOLID

Date Analyzed : 10/23/99

Batch Date: 10/19/99

Applies to: LR 43688

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
2,4-D	ND	0.2	0.195	0.198	98	99	1.5	35	65-135
2,4,5-TP (Silvex)	ND	0.2	0.164	0.171	82	86	4.2	35	65-135

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

LCS RECOVERY / METHOD BLANK

Test	Spike Added	LCS Result	LCS % Rec	Limits % Rec
2,4-D	0.2	0.187	94	65-135
2,4,5-TP (Silvex)	0.2	0.154	77	65-135

Method Blank = All ND

SECOR Chain-of-Custody Record

CARSON CITY NV 89706

Location: Durham, N.H.

Sampler's Name B. Bass
Sampler's Signature [Signature]

Sample ID	Date	Time	Matrix
ARYC2-A	9.16.99	11:55	Soil
ARYC2-B	"	12:10	"
ARYC2-C	"	12:20	"
ARYC2-D	"	12:35	"
ARYC2-E	"	12:45	"
ARYC5-A	9.15.99	17:50	"
ARYC5-C	9.15.99	17:56	"
ARYC5-E	9.15.99	16:54	"
ARYF1-A	9.17.99	10:15	"
ARYF1-B	"	10:19	"

Special Instructions/Comments:

LIMIT FOR EPA 8151 IS $\{ \text{DINO} \rightarrow 0.1 \cdot \frac{\text{mg}}{\text{L}} \}$

2.4.4-D → 0.2 mg/kg
2.4.5-T → 0.04 mg/kg

[illegible]

Relinquished by:

Sign B. Bass
Print B. Bass

Company SEZOR

Time 15:00 Date 10.11.3.99

Relinquished by: FENEX

Učis

Print [Print](#)

Company _____

Time _____ Date _____


Received by:

Sign

Print

Computer

Time _____ Date _____

Received by: 

Sign

Print

Company

Time /

Sample Receipt

Total no. of containers;

Chain of custody seals:

Yi yu shi yi ge ren de shi qing

Confirms to record:

Client:

Client Contact:

Client Phone:

Date: 10/13/99 Page 1 of 2

SECOR Chain-of-Custody Record

Carson City NV 89706

Location: Ouykbes N#

Turnaround Time 7-10 days

Sampler's Signature:

DAY	TIME	LOCATION	Special Instructions/Comments:
11	0430	LAD	

MINIMUM DIPOSED DETECTION LIMIT
IS 55 mg/kg. PREFERRED DETECTION
LIMIT FOR ~~WASTE~~ IS $5 \text{ DINO} \rightarrow 0.1 \text{ mg/kg}$

(2.4-D \rightarrow 0.2 mg/kg
2,4,5-T \rightarrow 0.04 mg/kg)

1518 45

Date: 10/13/99 Page 2 of 2

[illegible]